**[81. Search in Rotated Sorted Array II](https://leetcode.com/problems/search-in-rotated-sorted-array-ii/)**

There is an integer array nums sorted in non-decreasing order (not necessarily with **distinct** values).

Before being passed to your function, nums is **rotated** at an unknown pivot index k (0 <= k < nums.length) such that the resulting array is [nums[k], nums[k+1], ..., nums[n-1], nums[0], nums[1], ..., nums[k-1]] (**0-indexed**). For example, [0,1,2,4,4,4,5,6,6,7] might be rotated at pivot index 5 and become [4,5,6,6,7,0,1,2,4,4].

Given the array nums **after** the rotation and an integer target, return true*if*target*is in*nums*, or*false*if it is not in*nums*.*

You must decrease the overall operation steps as much as possible.

**Example 1:**

**Input:** nums = [2,5,6,0,0,1,2], target = 0

**Output:** true

**Example 2:**

**Input:** nums = [2,5,6,0,0,1,2], target = 3

**Output:** false

**Constraints:**

* 1 <= nums.length <= 5000
* -104 <= nums[i] <= 104
* nums is guaranteed to be rotated at some pivot.
* -104 <= target <= 104

**Follow up:** This problem is similar to [Search in Rotated Sorted Array](https://leetcode.com/problems/search-in-rotated-sorted-array/description/), but nums may contain **duplicates**. Would this affect the runtime complexity? How and why?